Listing of Claims

1. - 36. (cancelled)

37. (new) A method for communicating with a down hole device comprising

accepting a user input;

creating an equipment command based on the user input;

changing a physical influence comprising one or more primary physical influences associated with the borehole in accordance with the equipment command;

commanding a down hole device based on changing the physical influence;

said commanding comprising intercepting the equipment command and superimposing an additional command on the equipment command to command to the down hole device.

38. (new) The method of claim 37, wherein the physical influence comprises weight on bit.

39. (new) The method of claim 37, wherein the equipment comprises rotation speed.

40. (new) The method of claim 37, wherein the physical influence comprises tracer density.

41. (new) The method of claim 37, wherein the physical influence comprises mud flow rate.

42. (new) The method of claim 37, wherein the physical influence comprises mud pressure.

43. (new) The method of claim 37, wherein the physical influence comprises generating an acoustic signal.

44. (new) The method of claim 37, further comprising: entering user equipment commands in human perceptible form; and translating the user equipment commands into equipment detectable influences.

45. (new) The method of claim 37, further comprising: determining from a system state, available influence command states for generating equipment

2

3 commands.

1 46. (new) The method of claim 37, further comprising

2 dynamically changing a system configuration parameter.

1 47. (new) A computer readable medium containing executable instruction that

2 when executed by a computer perform a method for communicating with a down hole

3 device comprising

4 accepting a user input; creating an equipment command based on

5 the user input;

6 manipulating a physical influence comprising one or more primary

7 physical influences associated with the borehole in accordance with the

8 equipment command;

9 commanding a down hole device based on the manipulation in the

10 physical influence;

11 said commanding comprising intercepting the equipment command

12 and superimposing an additional command on the equipment to command the

13 down hole device.

1 48. (new) The medium of claim 47, wherein the physical influence comprises

2 weight on bit.

1 49. (new) The medium of claim 47, wherein the equipment comprises rotation

2 speed.

1 50. (new) The medium of claim 47, wherein the physical influence comprises

2 tracer density.

1 51. (new) The medium of claim 47, wherein the physical influence comprises

2 mud pressure.

1 52. (new) The medium of claim 47, wherein the physical influence comprises

2 mud flow rate.

1 53. (new) The medium of claim 47 wherein the physical influence comprises

2 generating an acoustic signal.

1 54. (new) The medium of claim 47, further comprising

2 entering user equipment commands in human perceptible form; and

3 translating the user equipment commands into equipment

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4   detectable influences.

1   55. (new) The medium of claim 47, further comprising

2   determining from a system state, available influence command

3 states for generating equipment commands.

1   56. (new) The medium of claim 47, farther comprising

2   dynamically changing a system configuration parameter.

1   57. (new) A method for commanding a down hole tool device comprising

2   accepting a user input;

3   creating an equipment command based on the user input;

4   changing a physical influence comprising one or more primary

5 physical influences associated with the borehole in accordance with the

6 equipment command; and

7   commanding the down hole tool based on changing the physical

8 influence.

4